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*Al*

~~CLAIMS:~~

- 005 727 293 4260*
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1. Plasma display device comprising a dielectric layer (5, 9, 28) separating electrodes (2, 4, 3, 8, 25, 24) from a discharge chamber (11, 22), characterized in that the dielectric layer (5, 9, 28) comprises a transparent metal oxide matrix in which alkyl groups are present.
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2. Plasma display device as claimed in claim 1, characterized in that the dielectric layer (5, 9, 28) is thicker than 10 micrometer.  
Plasma display device as claimed in claim 2, characterized in that the dielectric layer is thicker than 15 micrometer.
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3. Plasma display device as claimed in claim 1, characterized in that the dielectric layer comprises more than one sub-layer.
4. Plasma display device as claimed in claim 1, characterized in that the transparent metal oxide is silicon oxide.
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5. Plasma display device as claimed in claim 1, characterized in that the alkyl group is methyl or ethyl.
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6. Plasma display device as claimed in claim 6, characterized in that the alkyl group is methyl.
7. Plasma display device according to claim 1 characterized in that a layer (33) absorbing radiation having a wavelength  $\lambda \geq 175$  nm is present between the dielectric layer (5, 9, 2, 8) and the discharge chamber (11, 22).
8. Plasma display device according to claim 7 characterized in that the absorbing layer (33) comprises zirconium oxyde.

9. Method of manufacturing a plasma display device comprising electrodes (2, 3, 4, 8, 24, 25) and a discharge chamber (11, 22) in which device a dielectric layer (5, 9, 28) is provided in between the electrodes and the discharge chamber, characterized in that a precursor layer is applied to a substrate (1, 7, 23) comprising electrodes, the precursor layer comprising a metal alkoxide comprising, bound to the metal atom, an alkyl group and alkoxy groups and said precursor layer is subsequently converted to the dielectric layer.

10. Method as claim in claim 8, characterized in that the alkyl group is methyl or ethyl.

11. Method as claimed in claim 8, characterized in that the pre-cursor layer is applied by dip-coating, preferably in more than one layer.

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